second subclavate, petiolate. sparsely bristly; third cylindrical, bristly; terminal segment subpetiolate, rather blant, umringed. with abont ten separated whorl of bristles. Body ovate from above, anteriorly almont maked. posteriorly with short, sparse bristles; anal tubercle small. bristly, composed of two segments. Both the ventral tube and ite processes are cylindrical andstout. Leys stout, bristly; tibio-tarsal aticulation constricted. Superior claw finger-shaped, almost straight, not dentate; inferior claw two thirds as long, triangular with straight outer edge. Tenent hairs two. Furcula short and stout; manubrium not exceeding the anal tuhercle, sparsely bristly; dentes scarcely tapering, with lateral and ventral row of separated bristles: mucrones two-thirds dentes in length. Ions-triangular with entire margins and rounded apices.

Maximum length, 1.I mm. Described from ten types.

I found this uncommon species, especially under the bark of dead oak logs, at Arlinge
ton, Mass., this year, from March 26 until April 12 , inclusive. With pleasure I name it after Mr. Samuel llenshaw.

Trypes of all the above species have been given to the Museum of Comparative Zoölogy at Cambridge, Mass.

## ENPLANATION OF PLATE 10.

Fig. i. Smynthurus socialis, fore foot. x 472.

Fig. 2. Smbnthurus socialis, mucro, x 472 .
Fig. 3. ." ." hind foot,
472
Fig. 4. Smnthurus socialis, modified male antenna, x ifi.

Fig. 5. Smyuthurus benitus, terminal antemnal segment. Xild.

Fig. 6. Smyuthurus amicus, fore foot. x 353

Fig. 7. Smyuthuras amicus, mucro, x 353 .
Fig. S. . " hind foot. $x$ 353 .

## PARTIAL LIFE-HISTORY OF HALISIDOTA CINCTIPES GROTE.

BY゙HAJRISOY G. OYAR, NEW YORK, N. Y.

Larva a large Halisidota, like tessfluris, but dark brown or silver gray brown with all the hair tufts white. Feeding on seagrape, Lake Worth, Florida.

I assume eight stages, though some of them may be omitted in the actual ontogony.

Statre $I V$. Skin orange brownish, a black subdorsal blade on joints is to 11 . commected dorsally at the ends and most promonnced there ( 5 and in); tubercles $i$ to iii black on 5 and in, elsewhere the warts are brownish. Head round, shining black over apex, brown below, labrum bright white; width 13 mm . Har short, thin, white. with a few black ones, especially on the dank marks and on joints 5 and II ; a short, yelluwish subdorsal
pencil on joints 4 and 12 ; : few longer pale hairs at the anterior end. Wart iv absent on the abdomen, leg plate shining; two warts on joints 3 and $f$ above the stigmatal wart, one below it; joint 2 considerably retracted. The subdersal pencil on joint + arises from tubercle $i$; on joint 12 from iii.

Stage YYI, llead red-brown, a little blackish immediately above the white line on labrum and the white bases of the antennae: width 3.5 mm . Hair thinner than in the following stage, the color of the skin visible, violaceous brown with black dorsal shade and spiracular marks or blackish gray. shading darker stigmatically. Hair brown, varying from violaceous brown to chocolate;
hair pencils as in next stage．A mark in the incisure between joints 3 and + pinkish，di－ vided by a dorsal black line and surrounded by゙ black spottings．

Stage V／I／．Head roumd，shining mahog－ any red，paler along the autures；a line thove the mouth and bases of antennate white： width 5 mm ．IJair thick，obsconing the body，uniform pale chocolate brown or grity brown with a whitish cast on the sides， crested and appearing darker along the dor－ sal line．The hairs separate around the in－ cisure between joints 3 and + exposing the skin which is here slightly orange tinted，the three upper warts on 3 and $q$ being whitish and set off by black patclues on the skin．A white hatit pencil from warth innd iii on joint 4．：few long whitish hairs from the same wats on joint 3 ；a white pencil fiom wart iii on 12 ．Skin red brown more or less spotted with black or all black except the legs；spiracles white．Joint 2 is retracted， its hairs directed forward over the head． Ilairs all finely barbuled：warts i to vi or absomen；wart is distinct．but not full size； four warts on thorax．Length of larsa about 30 mm ．The orange colsred incisure on the thorax forms a ratber distinct mark．set off by black and the six white ratys．

Cocoom．Firm，compact，the larval hairs clonely felted and many of them projecting through，so that the cocoon cannot be handled withont receiving their harp points． The eocoon has the color of the hairs．

Food Ilamts．Sea grape（Coccoloba Hori－ duna and $C$ ．uififera），hindly detemmined by Mr．F．Kinzel．The latvae were found on no other plants and I think their occurrence On Hibiscus，as recorded by Gundlach，mast have been accidental or at least exceptional．

The species has a wide mage．It oceurs in our country in Fiorida（cinctifes）and Arizona（duzisï IIy．Edw．）extendines south－ ward through the West ladien and Mexico to Venevwela，throumh Brazil（imterlineata Walk，juesuda II．S．to Arsemtina．Moths from liaemos lyven are paler tham Cuban
specimens，the marks lens contrasted．but all essential features are the same even to the banded legs．The markings on the tore wings itre irresular and variable is in $/ /$ ． tesselarris．

Doubtless there is some local variation in the larvae in different parts of this wide range． Cocoon，from Buenos Ayres are almost black． indicating that the larvae must be consider－ ably datker there than in Florida．

Notes on Leepthopter．s．－On cutting open a cocoon of $A$ ．lana to see if the pupa was alive．I found that the moth had crawled ont of the pupa－skin and，being nomble to get out of the cocoon，had laid eggs all over the inner side of it．The eggs were almont black．instead of being white．

For three summers I have noticed that male orioles preferred sphingid larsae to all others，and by following them I have foumd many lavate of D．inscriftu，A．nessus，and T．ubbottii，besides $E$ ．myron．I saw one oriole carry from a woodbine fitty sphingid larvat in an hour and a haif．So far it has been only the male who has hanted in the woodbines，though the female wat getting food in elms and anh trees clone by．

Each June，for three years a $I$ ．cardui． hiss rested on the gravel of our drivenay almont every night．It appeats between five and six oclock，settles in almost the same plate in the driveway，drops its forewings hetween its himelwings，and stays Guiet unthl some carriage，person，or dog disturbs it． when it ties about for a lew moments，and them settles down again．If an English sparrow Hies anywhere near it the butterf！ flies trawards it，flotters around it an it does around one of itc own race．tben rents again on the wravel，and is to be seen there as long as there is light enough to see it：

Ot course it cannot be the same buttertly． and it is queer that only one should come at a time，and that the resting place should not lany by ten inches either on different nights or vear．Carolime G．Sonle． Brookline，Mass．

